

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-49 (canceled)

Claim 50 (currently amended): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object; and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with a reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, ~~and~~

~~the information of the I-picture is recorded in units of the data unit.~~

Claim 51 (currently amended): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object; and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored

in the data area to reproduce at least a portion of the information of I-pictures the I-picture
with a reproducing apparatus, the management area being configured to store information
relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association
table and a program map table wherein, within the data unit, the leading information is
located at a leading side of the data unit, and information of the MPEG transport stream is
located after the leading information, and

the information of the MPEG transport stream includes a random access indicator
configured to be supported if a special playback mode based on the I-picture is set, ~~the~~
~~information of the I-picture being recorded in units of the data unit.~~

Claim 52 (currently amended): An information storage medium configured to store a
data structure, comprising:

a data area configured to store an MPEG transport stream containing ~~information of I-~~
~~pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream
object; and

a management area configured to store control information used to access the data
unit, a start position of the data unit being matched to a start position of the I-picture, stored
in the data area to reproduce at least a portion of the information of I-pictures the I-picture
with a reproducing apparatus, the management area being configured to store information
relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association
table and a program map table wherein, within the data unit, the leading information is
located at a leading side of the data unit, and information of the MPEG transport stream is
located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the ~~information of I-pictures, the information of the I-picture being recorded in unit of the data unit~~ I-picture.

Claim 53 (currently amended): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with a reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, ~~and~~

~~the information of the I-picture is recorded in units of the data unit,~~

the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 54 (currently amended): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce ~~at least a portion of the information of I-pictures~~ the I-picture with a reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, ~~the information of the I-picture being recorded in units of the data unit~~,

the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 55 (currently amended): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored

in the data area to reproduce at least a portion of the information of I-pictures the I-picture
with a reproducing apparatus, the management area being configured to store information
relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the ~~information of I-pictures, the information of the I-picture being recorded in unit of the data unit~~ I-picture,

the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 56 (currently amended): A method of reproducing information from an information storage medium including,

a data area including an MPEG transport stream containing ~~information of I-pictures~~
an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area including control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data
area to reproduce at least a portion of the information of I-pictures the I-picture with a
reproducing apparatus, the management area being configured to store information relating to
a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is

located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, ~~and~~

~~the information of the I-picture is recorded in units of the data unit,~~

the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 57 (currently amended): A method of reproducing information from an information storage medium including,

a data area including an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area including control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with a reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, ~~the information of the I-picture being recorded in units of the data unit,~~

the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 58 (currently amended): A method of reproducing information from an information storage medium including,

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with a reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the ~~information of I-pictures~~, ~~the information of the I-picture being recorded in unit of the data unit~~ I-picture,

the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 59 (currently amended): A reproducing apparatus configured to reproduce information from an information storage medium including,

a data area including an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area including control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with the reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, ~~and~~

~~the information of the I picture is recorded in units of the data unit,~~

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the management area; and

a second reproducer configured to reproduce the information of the MPEG transport stream from the data area.

Claim 60 (currently amended): A reproducing apparatus configured to reproduce information from an information storage medium including,

a data area including an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area including control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with the reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, ~~the information of the I picture being recorded in units of the data unit,~~

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the management area; and

a second reproducer configured to reproduce the information of the MPEG transport stream from the data area.

Claim 61 (currently amended): A reproducing apparatus configured to reproduce information from an information storage medium including,

a data area configured to store an MPEG transport stream containing ~~information of I-pictures~~ an I-picture, the MPEG transport stream being recorded as a data unit of a stream object, and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce at least a portion of the information of I-pictures the I-picture with the reproducing apparatus, the management area being configured to store information relating to a position of the data unit, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is

located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the ~~information of I-pictures, the information of the I-picture being recorded in unit of the data unit~~ I-picture,

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the management area; and

a second reproducer configured to reproduce the information of the MPEG transport stream from the data area.

Claim 62 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing an I-picture, the MPEG transport stream being recorded as a data unit of a stream object; and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce the I-picture with a reproducing apparatus, wherein,

the data unit has leading information including a program association table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information.

Claim 63 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing an I-picture, the MPEG transport stream being recorded as a data unit of a stream object; and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce the I-picture with a reproducing apparatus, wherein,

the data unit has leading information including a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information.

Claim 64 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing an I-picture, the MPEG transport stream being recorded as a data unit of a stream object; and

a management area configured to store control information used to access the data unit, a start position of the data unit being matched to a start position of the I-picture, stored in the data area to reproduce the I-picture with a reproducing apparatus, wherein,

the data unit has leading information including a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information.